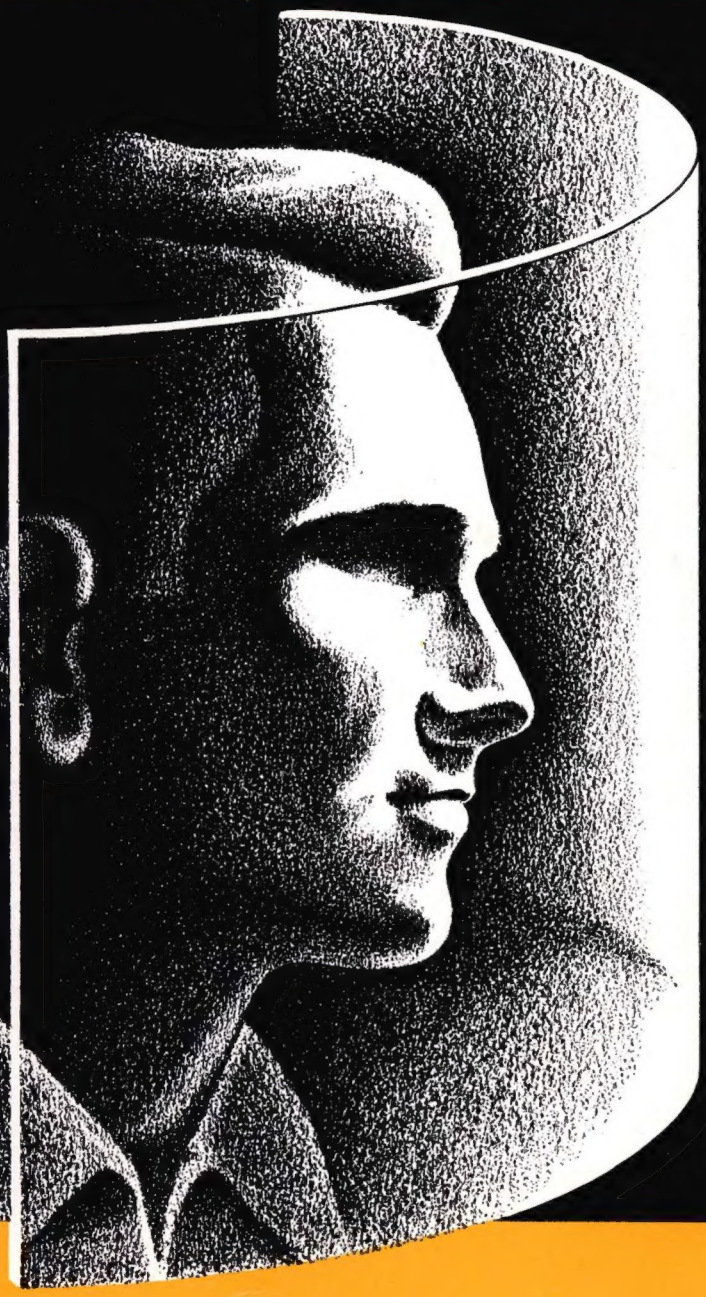
N.W.S.A. Index 930

# WELSH



## EYE and FACE PROTECTIVE PRODUCTS for INDUSTRIAL SAFETY


**WELSH** MANUFACTURING COMPANY

9 MAGNOLIA STREET • PROVIDENCE, R. I.


**CATALOG No. 57**

# WELSH . . .

## WILLINGLY WORN BY WORKERS EVERYWHERE

In this modern industrial plant, over four hundred employees and more than 50,000 square feet of manufacturing space are devoted to improving the safety, comfort and efficiency of your workers.

Established in 1925, Welsh has coast to coast distribution through dependable safety equipment, welding, hardware and industrial suppliers and optical wholesalers. The trademark WM on eye and face protective products is your assurance of the highest standard of quality in safety equipment.

This catalog illustrates and describes the basic Welsh line. It is designed to aid you in selecting and ordering for prompt delivery.

We have complete facilities for special contract work, and welcome inquiries.

**WELSH MANUFACTURING COMPANY**

**9 MAGNOLIA STREET, PROVIDENCE 9, R. I.**

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# WELSH SAFETY LENSES

## LENS SIZES

Diagrams show lenses in exact sizes as they are used in all Welsh goggles and spectacles. Their measurements are:

44mm Drop Eye (P3) = 45mm x 42mm

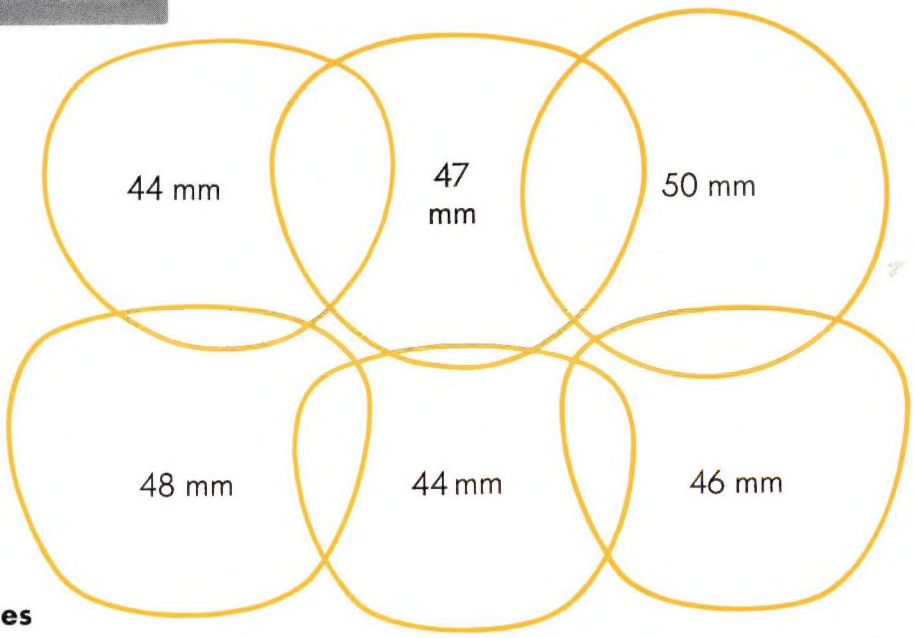
47mm Drop Eye (P3) = 48mm x 45mm

44mm Square Shape (S7) = 44mm x 37mm

46mm Square Shape (S7) = 46mm x 39mm

48mm Square Shape (S7) = 48mm x 41mm

50mm Round




## LENS TYPE in Available Sizes

- **A** — Clear, flat heat treated — 50mm Round, 44mm Drop Eye, 47mm Drop Eye
- **C** — Clear, 6.00 curve, heat treated — 44mm Drop Eye 47mm Drop Eye
- **E** — Clear, 6.00 curve, plastic — 44mm Drop Eye, 47mm Drop Eye, CR-39 Plastic
- **G** — Clear, 6.00 curve, heat treated — 44mm Square Shape, 46mm Square Shape, 48mm Square Shape
- **H** — Clear, 6.00 curve, plastic — 44mm Square Shape, 46mm Square Shape, 48mm Square Shape, CR-39 Plastic
- **K** — Clear, flat, plastic — 50mm Round — CR-39
- **P** — Green, flat, heat treated — shades of medium, dark, extra dark — 50mm Round, 44mm Drop Eye, 47mm Drop Eye
- **S** — Green, 6.00 curve, heat treated — shades of medium, dark, extra dark — 44mm Drop Eye, 47mm Drop Eye
- **T** — Green, 6.00 curve, plastic — 44mm Drop Eye, 47mm Drop Eye, CR-39 Plastic
- **V** — Green, 6.00 curve, heat treated — shades of medium, dark, extra dark — 44mm Square Shape, 46mm Square Shape, 48mm Square Shape
- **W** — Green, 6.00 curve, plastic — 44mm Square Shape, 46mm Square Shape, 48mm Square Shape
- **EX** — Clear, lightweight plastic for Clip-Ons — 46mm Drop Eye, 48mm Drop Eye, CR-39 Plastic
- **GX** — Clear, lightweight plastic for Clip-Ons — 46mm Square Shape, 48mm Square Shape, CR-39 Plastic
- **TX** — Green, lightweight plastic for Clip-Ons — 46mm Drop Eye, 48mm Drop Eye, CR-39 Plastic
- **WX** — Green, lightweight plastic for Clip-Ons — 46mm Square Shape, 48mm Square Shape, CR-39 Plastic

Lenses carrying the WM trademark are individually tested and selected for superior optical qualities. They are free from striae, waves, bubbles and prisms. The "drop ball" test assures uniform toughness in every WM lens.

Welsh glass lenses, heat treated for extra toughness, greatly exceed the impact requirements established by the Federal Government. All Welsh safety spectacles and goggles are fitted with heat treated, WM lenses unless otherwise specified.

Welsh CR-39 lenses are of rugged, light weight plastic. Optically correct, they are shatter proof with impact resistance equal to acrylic. With a surface hardness thirty to forty times that of any other type of plastic lens on the market, the Welsh, CR-39 lens has high resistance to pitting, scratching, abrasions, acids and temperature.

## POLARISCOPE TEST

***for Clear and Green Lenses***

Welsh heat treated lenses, when viewed through a Polariscope, show a very uniform stress pattern. This test proves the greater impact resistance resulting from the Welsh heat treating process for toughness.

*Other Lens Types and Sizes Are Available On Request*

# WELSH WELDING LENSES & PLATES

WM LENSES for flash protection are available in medium, dark and extra dark green glass, heat treated for extra toughness.

WELSH WELDING LENSES for welding cup goggles are available in shades 3 through 8. Heat treated welding lenses can be obtained as special order.

WELSH WELDING PLATES meet all federal specifications and are available in shades 3 through 14. Special shapes and sizes of filter glass can be obtained on special order. The following transmission table shows how the visible and invisible rays are eliminated. Heat treated welding plates can be obtained on special order.

## TRANMISSION

| Shade | Visible | Infra Red | Ultra Violet |
|---|---|---|---|
| Medium | 50% | 20% | 0.2% |
| Dark | 37% | 15% | 0.2% |
| Extra Dark | 23% | 12% | 0.2% |
| 3.0 | 13.9% | 9% | 0.2% |
| 4.0 | 5.18% | 5% | 0.2% |
| 5.0 | 1.93% | 2% | 0.2% |
| 6.0 | .72% | 1.5% | 0.1% |
| 8.0 | .100% | 1.0% | 0.1% |
| 9.0 | .037% | 0.8% | 0.1% |
| 10.0 | .0139% | 0.6% | 0.1% |
| 11.0 | .0052% | 0.5% | 0.05% |
| 12.0 | .0019% | 0.5% | 0.05% |
| 13.0 | .00072% | 0.4% | 0.05% |
| 14.0 | .00027% | 0.3% | 0.05% |

## TYPES OF WELDING LENSES AND PLATES

| | |
|---|---|
| **D—** | Blue Lens — 40mm Round — 50mm Round, medium shade only. |
| **F—** | Federal Specification Welding Lens — 50mm Round — Shades 3 through 8. |
| **J—** | Commercial Green Welding Lens — 50mm Round, Shades 3 through 8. |
| **L—** | Clear, Glass, Cover Lens — 50mm Round. |
| **LL—** | Clear, Glass, Cover Lens, Plastic Coated — 50mm Round. |
| **LLL—** | Clear, Plastic, Cover Lens — 50mm Round, CR-39 Plastic. |
| **M—** | Federal Specification Welding Plates — Shades 3 to 14. |
| **N—** | Clear Glass Cover Plate. |
| **NN—** | Clear Glass Cover Plate — Plastic Coated. |
| **NNN—** | Clear Plastic Cover Plate — CR-39 Plastic. |

# WELSH METAL FRAME SAFETY SPECTACLES

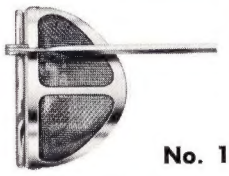
## *Series 3700 — Features New, Full Vision, Square Shape Lens and Strong Frame*

Modern styling — designed for maximum vision and comfort in assured safety.

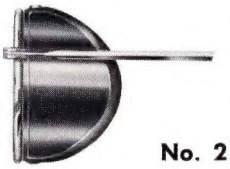
Modern fluted frame adds grace and beauty.

Lightweight temples are easy to adjust. High end pieces on frame and square shape lens provide maximum visibility and positive protection.

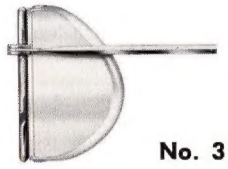
Additional reinforcing member at bridge construction provides high rigidity. Solid shanks for rocker arm nose pads resist shock.



**No. 1**
**Wire Screen**



**No. 2**
**Green Plastic, Solid**



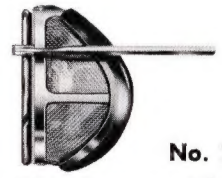
**No. 3**
**Clear Plastic, Solid**



**No. 5**
**Green Plastic, Perforated**



**No. 6**
**Clear Plastic, Perforated**

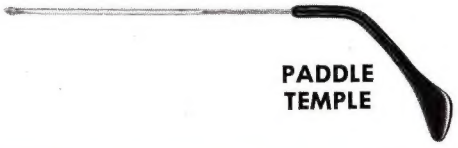


**No. 7**
**Wire Screen with Plastic Binding**

## SPECIFICATIONS FOR ORDERING

- **LENSES** — 6.00 Clear or Green, heat treated glass or 6.00 Clear or Green CR-39 plastic.
- **EYE SIZES** — 46mm Square Shape or 48mm Square Shape.
- **BRIDGE SIZES** — 22mm, 24mm or 26mm.
- **TEMPLES** — Comfort cable in lengths 6¾", 6½" or 6¼". Paddle Temples in lengths 6¼", 6" and 5¾".
- **SIDE SHIELDS** — As illustrated: Plastic side shields are standard. Wire screen shields available when specified.

*See Price List for Complete Details.*



**PADDLE TEMPLE**

# WELSH PLASTIC FRAME SAFETY SPECTACLES

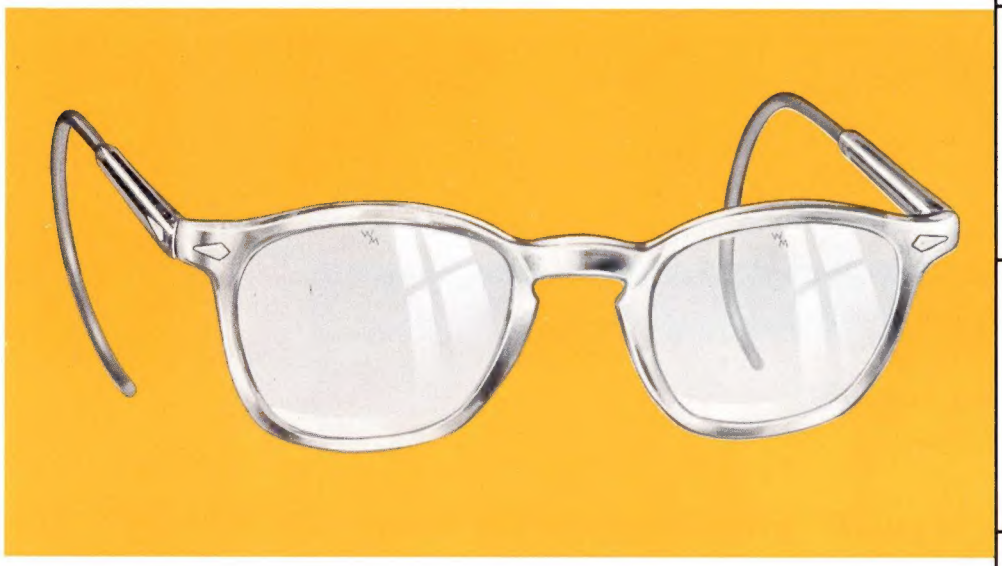
## *Series 2400 — Features New, Full Vision, Square Shape Lens in Colored Frame*

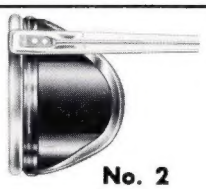
Series 2500 — same spectacle with rocker arm nose pads.

Attractive styling in color — designed for maximum comfort, long life and positive protection.

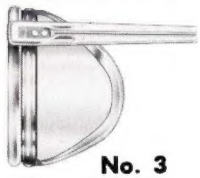
Available in copper, cordovan and crystal pink colored frames.

Butyrate frame is extra rugged but extremely light in weight.

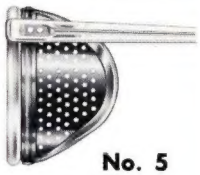




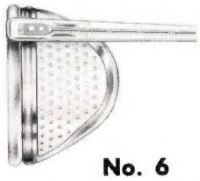
**No. 2**
**Green Plastic Solid**



**No. 3**
**Clear Plastic Solid**



**No. 5**
**Green Plastic Perforated**



**No. 6**
**Clear Plastic Perforated**

**SERIES 2500**

**Rocker Arm, Nose Pads**

## SPECIFICATIONS FOR ORDERING

- **LENSES** — 6.00 Clear or Green, heat treated glass. 6.00 Clear or Green, CR-39 plastic.
- **EYE SIZES AND BRIDGE SIZES** — 44 mm Square Shape with 18 mm, 20mm and 22 mm bridge; 46 mm Square Shape and 48 mm Square Shape with 20 mm, 22 mm, 24 mm and 26 mm bridge.
- **TEMPLES** — Comfort Cable in lengths 6¾", 6½" or 6¼". Spatula Temples in lengths 6¼", 6" or 5¾".
- **SIDE SHIELDS** — As illustrated; Solid or perforated in clear or green plastic.
- **FRAME COLOR** — Crystal Pink is standard. Cordovan or Copper available when specified.

**SPATULA TEMPLE**

*See Price List for Complete Details*

# WELSH METAL FRAME SAFETY SPECTACLES

## *Series 3600 — Features Added Strength and Smart Styling*

Reinforced bridge is securely fastened to frame at four points. Non-corrosive rocker arm nose pads permit balanced weight adjustment.

Maximum visibility obtained by high endpieces on frame with wide bearing surfaces at hinges to lessen temple drop.

### SPECIFICATIONS FOR ORDERING

- **LENSES** — Flat or 6.00 Curve, clear or green, heat treated glass or 6.00 Curve clear or green CR-39 plastic.
- **EYE SIZES** — 44 mm Drop Eye or 47 mm Drop Eye.
- **BRIDGE SIZES** — 22 mm, 24 mm or 26 mm.
- **TEMPLES** — Plastic covered cable in lengths; 6¾", 6½" or 6¼"; Paddle Temple in lengths 6¼", 6", and 5¾" (see illustration page 4).
- **SIDE SHIELDS** — Same types as illustrated on page 4: Plastic side shields are standard; wire screen side shields available when specified.

# WELSH PLASTIC FRAME SAFETY SPECTACLES

## *Series 2000 — Features Rugged, Lightweight Plastic Frame In Color*

Lightweight butyrate frame is comfortable and durable and is available in copper, cordovan and crystal pink colors.

### SPECIFICATIONS FOR ORDERING

- **LENSES** — Flat or 6.00 Curve, Clear or green, heat treated glass. 6.00 Curve, clear or green CR-39 plastic.
- **EYE SIZES** — 44 mm Drop Eye or 47 mm Drop Eye.
- **BRIDGE SIZES** — 20 mm, 22 mm, 24 mm or 26 mm.
- **TEMPLES** — Comfort cable in lengths, 6¾", 6½" or 6¼". Spatula in lengths: 6¼", 6" or 5¾".
- **SIDE SHIELDS** — Same types as illustrated on page 5: Solid or perforated in clear or green plastic.
- **FRAME COLOR** — Crystal Pink is standard. Cordovan or Copper available when specified.

*See Price List for Complete Details*

# WELSH COMBINATION METAL AND PLASTIC FRAME SAFETY SPECTACLES

## *Series 2800 — Features New Full Vision, Square Shape Lens and Handsome Modern Frame*

Designed for appearance, maximum comfort, protection and vision — Has metal bridge and metal eye wires with colored plastic upper frame structure.

## SPECIFICATIONS FOR ORDERING

- **LENSES**

  6.00 curve, Clear or Green, heat treated glass.
  6.00 curve, Clear or Green, CR-39 Plastic.

- **EYE SIZES AND BRIDGE SIZES**

  44mm Square Shape with 20mm bridge only.
  46mm Square Shape and 48 Square Shape with 20mm, 22mm and 24mm bridge.

- **TEMPLES**

  Spatula in lengths: 6¼", 6" or 5¾". Comfort cable in lengths 6¾", 6½" or 6¼" available when specified.

- **FRAME COLOR**

  Cordovan only.

NO SIDE SHIELDS are available on the 2800 Series.

*See Price List for Complete Details.*

# WELSH SOFT SIDE, PLASTIC EYE SHIELDS

## *Series 1070 — Features Soft, Pliable Vinyl Frame for Long Wearing Comfort and Protection*

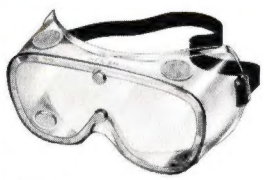
Adapts readily and comfortably to any size or shape of head.

Fits easily over largest prescription glasses.

Provides clear, wide angle vision with extra large, one piece lens of impact resistant cellulose acetate. Vinyl lens available for chemical operations; other lenses on special order.

Easier lens replacement assured with just two positive action snap fasteners.

**RECOMMENDED FOR SPOT WELDING LIGHT GRINDING CHIPPING and CHEMICAL OPERATIONS**



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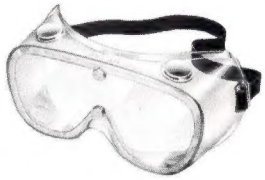


1072

1073

1074

## SPECIFICATIONS FOR ORDERING

**VENTILATION STYLES —**

**#1070** — Regular perforations for average conditions.

**#1071** — Screened ports for extreme dust conditions.

**#1072** — Baffled ports for acid and splash conditions.

**#1073** — No ventilation for vapor conditions.

**#1074** — Perforations on bottom and side only for acid and splash conditions.

**HEADBANDS** — High quality elastic. Rubber headbands available when specified.

**FRAME COLOR** — Clear or Green.

**LENS COLOR** — Clear or Green.

*See Price List for Complete Details*

# WELSH ALL PLASTIC EYE SHIELDS

## *Series 1050 — Features Lightweight Plastic Cover-All Eye Protection*

Meets Federal Government impact and piercing specifications.

Perforated for ample ventilation.

Non-flammable

Universal nose bridge for easy fitting and maximum comfort.

Fits comfortably over prescription glasses.

### SPECIFICATIONS FOR ORDERING

**COLOR —**

Style 1050 — Clear for normal conditions.
1051 — Green for protection against glare.
1055 — Clear front and Green sides.

## *Series 1090 — Features Low-Cost, Featherweight Eye Protection*

One piece design in clear .040 thick Acetate.

Top and side perforations provide good ventilation.

Fits comfortably over prescription glasses.

Non-flammable.

### SPECIFICATIONS FOR ORDERING

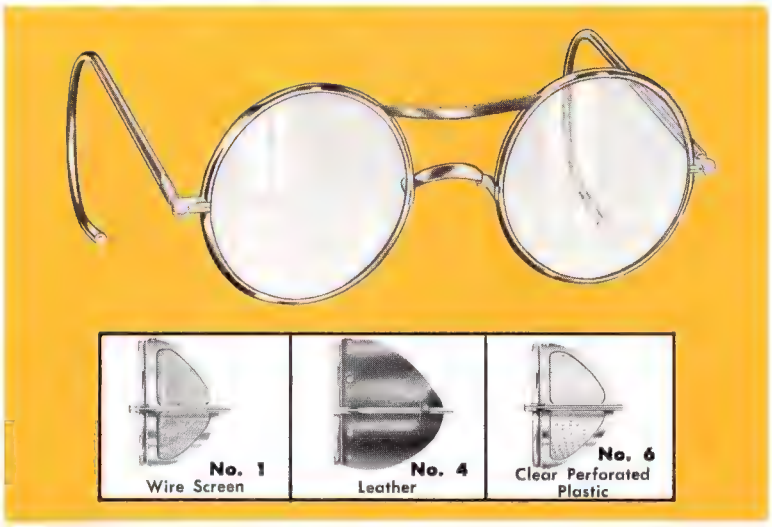
Sold only in dozen unit lots. Minimum order is one dozen. Odd piece orders will be shipped to nearest dozen.

*See Price List for Complete Details*

## WELSH METAL FRAME SPECTACLES

### *Series 3200 — Features Economical Reinforced Metal Frame Construction*

Extra brace bar above saddle nose bridge provides added strength.




**SPECIFICATIONS FOR ORDERING**

- **LENSES** — Clear, heat treated glass. Clear CR-39 plastic.
- **EYE SIZE** — Flat, 50mm round only.
- **TEMPLES**—Cable, covered with plastic tubing.
- **SIDE SHIELD** — As illustrated: Plastic side shields are standard; wire screen and leather available when requested.
- **NOSE GUARD** — Leather available when requested.

## WELSH METAL CLIP-ON GOGGLES

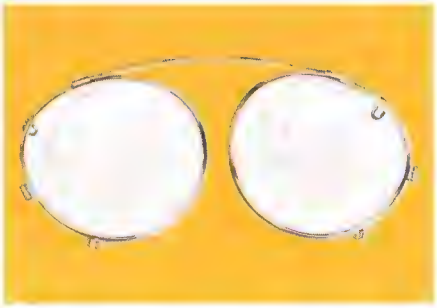
### *Series 3800 — Drop Eye • Series 3900 — Square Shape*

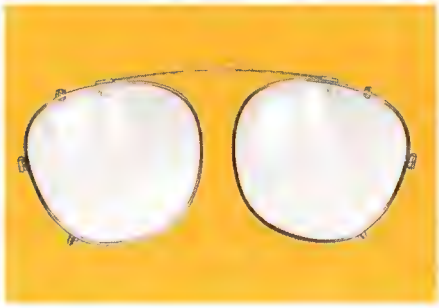
### *Feature Lightweight Protection Over Prescription Lenses Against Pitting and Scratching*

***Easy to attach, easy to remove***

**SPECIFICATIONS FOR ORDERING**

- **LENSES** — Clear or Green CR-39 plastic.
- **EYE SIZES** — 46 mm Drop Eye or 48 mm Drop Eye, 46 mm Square Shape or 48 mm Square Shape.





## WELSH PLANT VISITORS SPECTACLES

### *Series 1060 — Features Attractively Styled, Low Cost, Featherweight Protection*

Designed for plant visitors and semi-hazardous conditions. May be worn comfortably over prescription glasses.

**SPECIFICATIONS FOR ORDERING**

Sold only in dozen unit lots. Minimum order is one dozen. Odd piece orders will be shipped to nearest dozen.

Style 1060 Clear Plastic Lenses.
1061 Green Plastic Lenses.
1065 Clear Plastic Lenses, Clear Side Shields.
1066 Green Plastic Lenses, Green Side Shields.
Cases available on request.

*See Price List for Complete Details*

# WELSH CHIPPERS' CUP AND COVER TYPE GOGGLES

## *Series 5000 — Features New, Perfect Fitting, Contour Cup*

Designed for maximum safety and comfort against the frontal impact hazard of flying particles.

Heat treated, Welsh lenses provide greater impact resistance.

Large, non-corrosive, wire mesh side shields give maximum ventilation and prevent fogging.

Bridge and head band are easily adjustable.

New Metal Chain Keeper in open position

## CHIPPERS' CUP GOGGLE — STYLE 5001

### FEATURES NEW, METAL CHAIN KEEPER FOR MORE ACCURATE ADJUSTMENT OF BRIDGE AND MORE POSITIVE LOCKING IN POSITION

#### SPECIFICATIONS FOR ORDERING

- **LENSES** — Type A — Heat Treated Glass. Type K — CR-39 Plastic.
- **CUPS AND RIMS** — Molded thermo-plastic in gold cups and black rims, in transparent cups and black rims and in brown cups and brown rims.
- **SIDE SHIELDS** — Non-corrosive wire mesh.
- **BRIDGE** — Adjustable, neoprene insulated ball chain with metal chain keeper.
- **HEADBAND** — One piece, adjustable elastic. Rubber on request.

Transparent Cup with wire mesh

## CHIPPERS' COVER GOGGLES

**STYLE 5023 — *With Non-Corrosive Adjustable Crown Brace (as illustrated)***

**STYLE 5021 — *Same As 5023 Without Non-Corrosive Adjustable Crown Brace***

***GIVES MAXIMUM COMFORT OVER LARGE FRAME PRESCRIPTION GLASSES***

#### SPECIFICATIONS FOR ORDERING

- **LENSES** — Type A — Heat Treated Glass. Type K — CR-39 Plastic.
- **CUPS AND RIMS** — Deep cup, molded thermo-plastic in gold cups and black rims, in transparent cups and black rims and in brown cups and brown rims.
- **SIDE SHIELDS** — Non-corrosive wire mesh.
- **BRIDGE** — Soft leather with simple slide adjustment.
- **HEADBAND** — One piece, adjustable elastic. Rubber on request.

*See Price List for Complete Details*

# WELSH WELDERS' CUP AND COVER TYPE GOGGLES

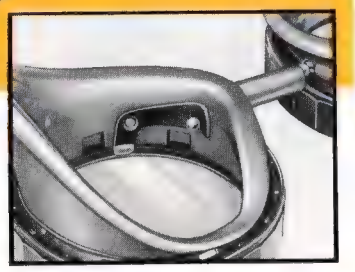
## *Series 5000 — Features New, Deep Rim and Contour Cup*

Filter lenses meet every requirement for maximum flash protection.

Non-corrosive metal side shields baffles exclude light . . . permit ample ventilation.

Bridge and headband are easily adjustable.

New deep rims are designed to hold firmly one filter lens and two cover lenses.



New Metal Chain Keeper in closed position

## WELDERS' CUP GOGGLE — STYLE 5002

***FEATURES NEW METAL CHAIN KEEPER FOR MORE ACCURATE ADJUSTMENT OF BRIDGE AND MORE POSITIVE LOCKING IN POSITION***

### SPECIFICATIONS FOR ORDERING

- **LENSES** — Type F. Shades 3-8. See page 3. Type FH heat treated. Shades 3-8 available when specified.
- **CUPS AND RIMS** — Thermo-plastic in gold cups and black rims or in brown cups and brown rims.
- **SIDE SHIELDS** — Non-corrosive metal baffles.
- **BRIDGE** — Adjustable neoprene ball chain with metal chain keeper.
- **HEADBAND** — One piece, adjustable elastic. Rubber on request.

## WELDERS' COVER GOGGLE

**STYLE 5024 — *With Non-Corrosive Adjustable Crown Brace (as illustrated)***

**STYLE 5022 — *Same As 5024 Without Non-Corrosive Adjustable Crown Brace***

***GIVES MAXIMUM COMFORT OVER LARGE PRESCRIPTION GLASSES***

### SPECIFICATIONS FOR ORDERING

- **LENSES** — Type F. Shades 3-8. See page 3. Type FH heat treated. Shades 3-8 available when specified.
- **CUPS AND RIMS** — Deep cup, molded thermo-plastic in gold cup and black rims as standard; also available in brown cups and brown rims when specified.
- **SIDE SHIELDS** — Non-corrosive, light excluding metal baffles.
- **BRIDGE** — Soft leather with simple slide adjustment.
- **HEADBAND** — One piece adjustable elastic. Rubber on request.

*See Price List for Complete Details*

# WELSH WELDERS' FLASH SPECTACLES

Protection against impact, light or flash hazards where a completely enclosed, cup type, safety goggle is not required.

Used under welders' helmets or by welders' helpers or any person exposed to the flash of welding operations. All lenses are of heat treated glass and are tinted to reduce glare.

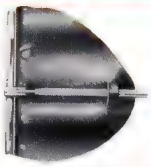
### *Style 3261— With Green, Solid Plastic Side Shields*

### *Style 3260 —With Leather Side Shields*

***FEATURES STURDY, PRECISION-MADE METAL FRAME, IDEAL FOR GENERAL SHOP USE***

**SPECIFICATIONS FOR ORDERING**

- **LENSES** — Flat, green, heat treated glass in medium, dark or extra dark shades.
- **EYE SIZE** — 50 mm round.
- **TEMPLES** — Plastic covered cable.
- **SIDE SHIELDS** — As illustrated.
- **NOSE GUARD** — Leather.



**No. 4**
**Leather**

### *Style 2050 — With Flat, Heat Treated Lenses*

### *Style 2051 — With 6.00 Curve, Heat Treated Lenses*

***FEATURES LIGHTWEIGHT RUGGED BUTYRATE FRAME***

**SPECIFICATIONS FOR ORDERING**

- **LENSES** — Flat, or 6.00 curve, green, heat treated glass, in medium, dark or extra dark shades.
- **EYE SIZE** — 47 mm Drop Eye.
- **BRIDGE SIZE** — 20 mm, 22 mm, 24 mm or 26 mm.
- **TEMPLES** — Comfort cable in lengths: 6¾", 6½" or 6¼".
- **COLOR OF FRAME** — Cordovan only — specify flash spectacle.
- **SIDE SHIELDS** — As illustrated.

**No. 5**
**Green Plastic**
**Perforated**

*See Price List for Complete Details*

# WELSH WELDERS' HELMETS

Welsh Fiberglas Welders' Helmets have the following outstanding qualities: Lightweight, Exceptional Strength, Resistant to Heat and Weld Splatter, Moistureproof and Non-Warping. They are easily cleansed and sterilized without impairing surfaces. The new Polyester Resin compound used in these shells provides the most advanced protection possible.

### *Style 702-3C*

**FIBERGLAS HELMET** with Insulated Steel Glass Holder. One piece, thermo molded shell has inwardly curved top and bottom and straight body. Is roomy with good ventilation.

### *Style 606-3C*

**FIBERGLAS HELMET** with Lift Front, Glass Holder of Insulated Dow Metal. One piece thermo molded shell has curved top and straight lower portion with reinforced rib at bottom for extra throat and upper chest protection.

### *Style 602-3C*

**FIBERGLAS HELMET** with Insulated Steel Glass Holder — One piece thermo molded shell has inwardly curved top and straight lower portion with reinforced rib at bottom for extra throat and upper chest protection.

### *Style 706-3C*

**FIBERGLAS HELMET** with Lift Front, Glass Holder of Insulated Dow Metal. One piece, thermo molded shell has inwardly curved top and bottom and straight body. Is roomy with good ventilation.

### *Style 708-3C*

**FIBERGLAS HELMET** with New, Large Insulated Steel Glass Holder for extra wide vision. One piece, thermo molded shell has inwardly curved top and bottom and straight body. Is roomy with good ventilation.

**STYLE 608-3C** — Same as above with straight lower portion.

### *Style 703A*

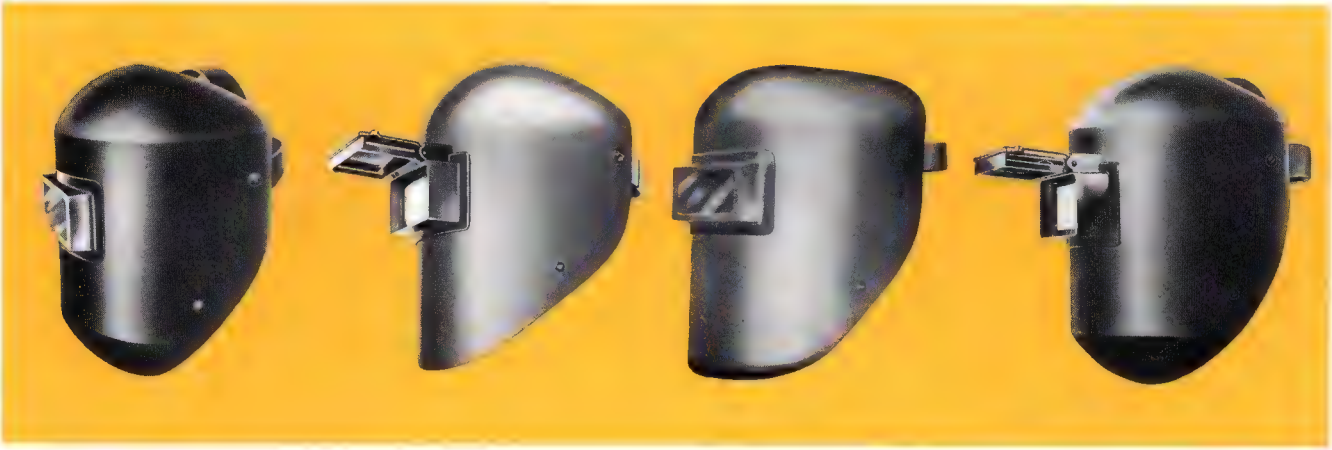
**FIBERGLAS HANDSHIELD** with Insulated Steel Glass Holder. One piece, thermo molded shell has inwardly curved top and bottom and straight body. Is fully molded top and bottom for extra protection.

*See Price List for Complete Details*

# WELSH WELDERS' HELMETS

Welsh Welders' Helmets, in Fibre and Fiberglas, are designed to meet the highest standards for light, heat and flash resistance and to give superior performance under the roughest treatment.

Welsh helmets carry an unconditional replacement guarantee against defective materials and workmanship.



### *Style 270-4C*

**SEAMLESS FIBRE HELMET** with Insulated Steel, Fixed Front, Glass Holder. One piece shell has inwardly curved top and bottom and straight body. Is roomy with good ventilation.

### *Style 460-4C*

**SEAMLESS FIBRE HELMET** with Lift Front, Glass Holder of Insulated Dow Metal. One piece shell has inwardly curved top and straight lower portion with reinforced rib at bottom for strength and extra throat and upper chest protection.

### *Style 440-4C*

**SEAMLESS FIBRE HELMET** with Insulated Steel, Fixed Front, Glass Holder. One piece shell has curved top and straight lower portion with reinforced rib at bottom for strength and extra throat and upper chest protection.

### *Style 890-4C*

**SEAMLESS FIBRE HELMET** with Lift Front, Glass Holder of Insulated Dow Metal. One piece shell has inwardly curved top and bottom and straight body. Is roomy with good ventilation.

### *Style 70*

Folded from one sheet, this fibre helmet is closely riveted, small and lightweight. Adjustable headgear and joints furnished. Recommended for intermittent welding.

### *Style 3C*

**PLASTIC HEADGEAR** — Adjustable to any headsize by simple ratchet mechanism. Moistureproof, flexible plastic bands keep helmets in suspended position at all times. Form fitting and comfortable.
**STYLE 4C** — same as 3C except bands are vulcanized fibre.

*See Price List for Complete Details*

## WELSH WELDERS' GLOVES AND MITTENS

Welsh Welders Gloves and Mittens are available in Chrome Tan Leather and Underwriters Grade Asbestos Cloth. Leather is recommended for heavy duty work, particularly for handling metal with sharp edges. Asbestos is best wherever heat is the main factor.

**STYLE 4035 — CHROME TAN LEATHER GLOVES** — 14" long. Clute cut to eliminate undesirable seams. Soft and flexible.

**STYLE 4036 — ONE FINGER CHROME TAN LEATHER MITTENS** — 14" long, stands heat well and stays soft.

**STYLE 4037 — ASBESTOS GLOVES** — 14" long. Lined and double stitched for longer life.

**STYLE 4038 — ONE FINGER, ASBESTOS MITTENS** — 14" long. Lined and doubled stitched for longer life. Combines flexibility with durability.

## WELSH FACE SHIELDS

### *Series 6000 — Feature Lightweight Frontal Protection*

Provide positive protection under flash, impact or splash conditions with shatter resistant cellulose acetate windows.

Sturdy spring pivot, permits easy up and down adjustments. Windows are bound in pliable rust-proof channels. Headgear is of steam molded fibre, easily adjusted to various head sizes. Padded leatherette sweatband assures wearer safety.

### SPECIFICATIONS FOR ORDERING

**WINDOW** — clear or colored:
**#6104** — 4" cellulose acetate
**#6106** — 6" cellulose acetate
**#6108** — 8" cellulose acetate

**FOREHEAD PROTECTION PIECE:** None
**SWEATBAND:** On fibre front band
**TOP BAND:** Fibre
**REAR BAND:** Dura Flex Rubber

**WINDOW** — clear or colored:
**#6204** — 4" cellulose acetate
**#6206** — 6" cellulose acetate
**#6208** — 8" cellulose acetate

**FOREHEAD PROTECTION PIECE:** Shaped Fibre
**SWEATBAND:** On fibre front band
**TOP BAND:** Fibre
**REAR BAND:** Dura Flex Rubber

**WINDOW** — Clear or colored:
**#6304** — 4" cellulose acetate
**#6306** — 6" cellulose acetate
**#6308** — 8" cellulose acetate

**FOREHEAD PROTECTION PIECE:** Shaped Fibre
**SWEATBAND:** On fibre front band
**HEADBAND:** Spring clip, replacing Dura Flex rear band

6" or 8" Unbound Windows available in .050 thickness when specified.

*See Price List for Complete Details*

# WELSH RUBBER FRAME PROTECTIVE GOGGLES

## *Series 1044 — Features Wire Filters in Ventilating Ports*
## *Series 1045 — Features Felt Filters in Ventilating Ports*
## *Series 1046 — Chemical Goggle, Without Filters or Ports*

Protects against chemical splashes, spray, dust concentrations and foreign particles.

Fits comfortably over prescription glasses.

### SPECIFICATIONS FOR ORDERING

- **LENSES** — One piece, replaceable .040 lens of impact resistant acetate is standard. Special lens composition and .060 pre-formed lenses available on request.
- **FILTERS** — Replaceable Fabric or Wire Screen depending on Series specification.
- **FRAME** — Rubber.
- **HEADBAND** — Adjustable Rubber.

## *Series 1040 — Fog Free, Dust Free Protection*

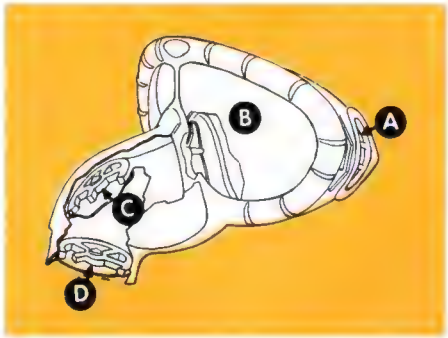
For use in polishing, buffing, grinding, scaling and operations where dust, fogging, frosting and steaming conditions exist.

Non-fogging . . . non-frosting down to temperatures of minus 35° F.

Worn comfortably over prescription glasses.

### SPECIFICATIONS FOR ORDERING

- **LENSES** — Clear or Green shatter resistant plastic.
- **FILTERS** — Replaceable felt.
- **FRAME** — Rubber.
- **HEADBAND** — Adjustable elastic.




A. **INTAKE PORTS** . . . air is inhaled through felt diffusers which regulate intake and filter out dust.

B. **LENS CHAMBER** . . . breathing action changes air in chamber, removing moisture from lens surface before it can form fog or steam.

C. **INLET VALVES** . . . regulates air passage to nose.

D. **OUTLET VALVE** . . . exhaling controls outlet valves and permits escape of moist air.

*See Price List for Complete Details*

## WELSH FLEX-A-FOAM FILTER MASK

### *Series 8100*
### *Guards Against Non-Toxic Dust*
#### *8100-1 Replacement Filter Only*

Comfortable, economical and durable, this Welsh Guard filter mask is of simple construction with just four parts, polyethylene interlocking frames, filter and strap — A quality dust respirator, it can be washed, sterilized and used over and over again — Actual tests have proven that this type of mask outlasts other dust-type filter masks by more than 100 times — Weighs one ounce and is designed to fit comfortably and snugly on any type face.

## WELSH FLEX-A-PRENE PAINT MASK

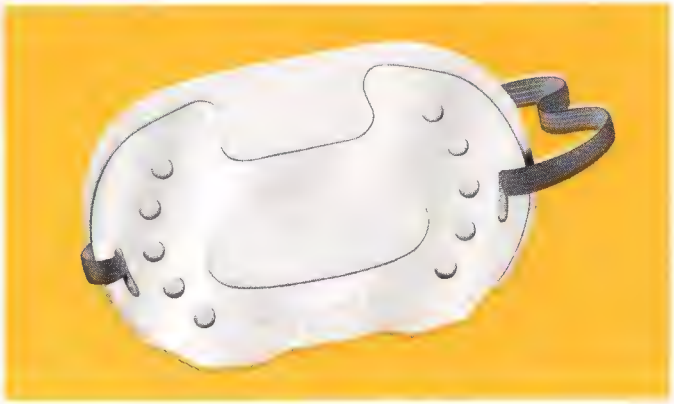
### *Series 8105*
### *Protects Against Exposure to Pigments and Solvents*
#### *8105-1 Replacement Filter Only*

This new Welsh Guard paint mask is efficient and durable — has a simple design of replaceable non-toxic, non-allergic parts — A patented Prenex filter blocks pigments and solvents and is easy to breathe through — Flexible polyethylene frames lock to prevent air leaks and adjust themselves to fit any size face — Neoprene headband has cross hatch tread to prevent slipping and hair pulling — Entire unit weighs only one ounce.

## WELSH FEATHERWEIGHT DUST and PAINT MASK

### *Series 8030*
### *Efficient, Economical and Practical*
#### *8030-1 Regular Weight Replacement Filter*
#### *8030-2 Double Weight Replacement Filter*

This Welsh featherweight dust and paint mask combines practical protection and economy for ordinary non-toxic dust and spray hazards. Easily assembled, this mask is composed of a flexible Aluminum Shield, Replaceable Filter Pad and an Adjustable Elastic Headband. Shipped as a complete unit, mounted on a card containing complete directions. Replaceable Filter Pads available in two types. Please reorder by number:



*See Price List for Complete Details*

# WELSH SAFETY HAT

## *Series 4150 • Series 4155 Safety Cap*

## *Lightweight, Cool and Comfortable, Assured Head Protection*

WELSH safety hats and caps are made of thermosetting, Fiberglas-reinforced, superior polyester resin. They meet Federal specification, GGG-H-142B, tests for impact, penetration, electrical resistance, flammability, water absorption and are fully resilient. Available in permanent color of gray-standard. White, red, yellow, green, blue or brown on request. Other colors obtainable in quantity orders.

1. & 2. **COMFORT SUSPENSION** of flexible polyethylene material conforms easily and quickly to all shapes of heads. Can be readily adjusted for depth to obtain desired space between top of suspension and shell.

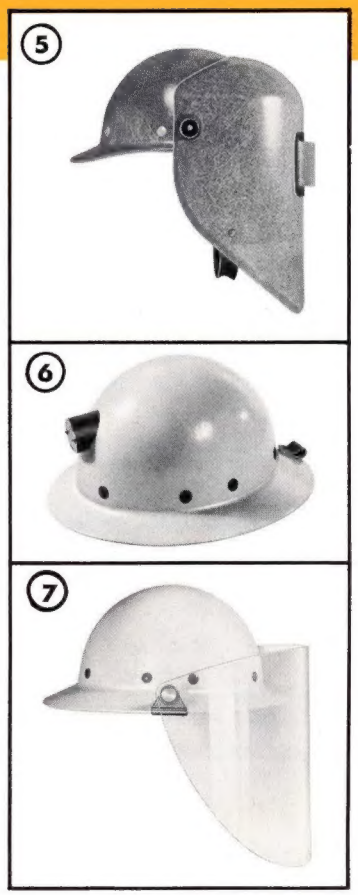
3. **ONE SIZE** fits all head sizes. Headband, marked with sizes, is easily adjusted to fit head sizes from 6½ to 8. Headband available in Leatherette or Genuine Leather.

4. **WINTER LINERS** — Full liners with ear flaps and skull cap type are tailor made, lined with soft flannel, constructed of strong gray twill, mercerized and sanforized. Washable, they hold their shape and are color fast. Do not shift on head.

5. **STYLE 4157 — SAFETY CAP AND WELDERS' HELMET COMBINATION** — Added safety for welders. See pages 14 and 15 for desired helmets.

6. **STYLE 4160 — SAFETY HAT OR CAP WITH MINER'S LAMP ATTACHMENT** — Adapted for leading makes of miner's lamps.

7. **STYLE 4170 — SAFETY HAT AND FACE SHIELD COMBINATION** — Added safety in air hammering, sand blasting, etc. involving overhead impact hazards.




*See Price List for Complete Details*

# WELSH PARTS LIST

## SCREWS

**No. 101**
End piece screw for 3600 Series, 3700 Series and 3200 Series

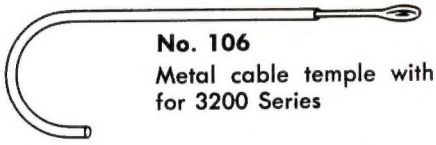
**No. 102**
Temple screw for 3600 Series and 3700 Series

**No. 103**
Temple screw for 3200 Series

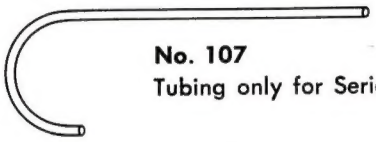
**No. 104**
Temple screw for 2000 Series, 2400 Series and 2800 Series

**No. 105**
End piece screw for 2800 Series

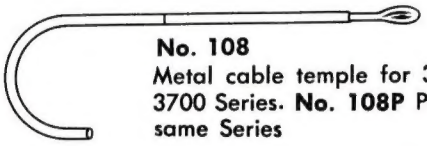
## TEMPLES AND TUBING



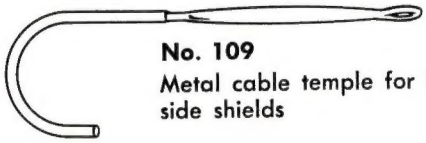
**No. 106**
Metal cable temple with vinyl covering for 3200 Series



**No. 107**
Tubing only for Series 3200 temples

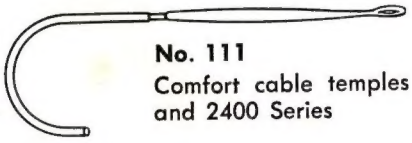


**No. 108**
Metal cable temple for 3600 Series and 3700 Series. **No. 108P** Paddle temple for same Series



**No. 109**
Metal cable temple for 3700 Series with side shields

**No. 110**
Tubing only for 3600 Series and 3700 Series

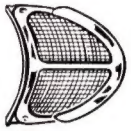


**No. 111**
Comfort cable temples for 2000 Series and 2400 Series

**No. 112**
Spatula temples for 2000 Series and 2400 Series

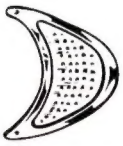
## SIDE SHIELDS

**No. 113**
Wire screen side shields for 3600 Series, 3700 Series and 3200 Series



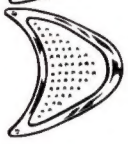
**No. 114**
Wire screen, vinyl bound, side shields for 3600 Series, 3700 Series and 3200 Series

**No. 115**
Clear or Green, solid side shields for 3600 Series, 2000 Series and 3200 Series



**No. 116**
Clear or Green, perforated side shields for 3600 Series, 2000 Series and 3200 Series

**No. 117**
Clear or Green, solid side shields for 3700 Series and 2400 Series



**No. 118**
Clear or Green, perforated side shields for 3700 Series and 2400 Series

**No. 119**
Leather side shield for 3200 Series and 3600 Series

## RIVETS

**No. 120**
Rivets for assembling replacement side shields on 3200 Series, 2000 Series, 2400 Series, 3600 Series, 3700 Series

## NOSE PAD ASSEMBLY

**No. 121**
Rocker arm nose pad assembly for 2000 Series and 2400 Series

## NOSE GUARD

**No. 122**
Leather Nose Guard for Series 3200



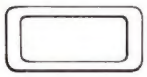
HCG 2496 3-57
Printed in U.S.A.

# WELSH PARTS LIST

## HELMET PARTS

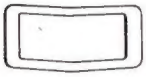
**No. 123**
Dow Metal Lift Front glass holder

**No. 124**
Sweat band



**No. 125**
Lens washers

**No. 126**
Lens retaining spring



**No. 127**
Lens retaining spring for Lift Front

## FOG FREE, MULTI-PURPOSE and CHEMICAL GOGGLE PARTS

**No. 128**
Felt Filters for Series 1045

**No. 129**
Wire Screen Filters for Series 1045

**No. 130**
Neoprene Head Bands for Series 1045 and Series 1046

**No. 131**
Headband Buckles for Series 1045 and Series 1046

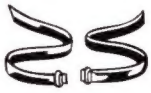
**No. 132**
Filter Pads for Series 1040

**No. 133**
Headbands for Series 1040

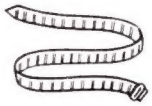
**No. 134**
Plastic Clips for Series 1040

**No. 135**
Rubber Valves for Series 1040

## CUP GOGGLE PARTS

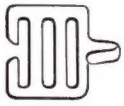


**No. 136**
Elastic Headbands and Buckles for all models Series 5000



**No. 137**
Rubber Headbands and Buckles for all models Series 5000

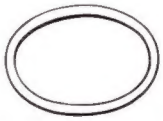
**No. 138**
Buckles for Elastic Headbands of all models Series 5000



**No. 139**
Buckles for Rubber Headbands all models Series 5000

**No. 140**
Chain Bridge only Model 5001 and 5002

**No. 141**
Chain Bridge tube Model 5001



**No. 142**
Lens Washers for all models Series 5000

**No. 143**
Rims for all models Series 5000

**No. 144**
Bridge Straps for models 5021, 5023, 5022 and 5024

**No. 145**
Bridge Strap buckles for models 5021, 5023, 5022 and 5024

INDUSTRIAL SAFETY EQUIPMENT ASSOCIATION INC.
FOR SAFETY

**WELSH MANUFACTURING COMPANY**

**9 MAGNOLIA STREET, PROVIDENCE, RHODE ISLAND**